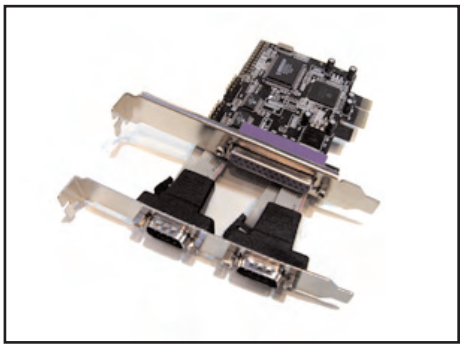
PCI Express Connectivity Products

PX series - Serial, Parallel Product Lines



Advance PCI technology with the introduction of the PCI Express Card. PCI Express is the new standard serial connectivity card in PCI technology and the successor for server- and client-system I/O interconnects.

In addition to the bus technology upgrades, such as faster speeds and deeper FIFO rates, PCI Express touts many advantages over the traditional PCI card including point-to-point link dedicated to each device, instead of PCI shared bus; lower latency in server architectures due to a more direct connection to the chip set; small connectors with easier implementation for system designers and advanced features via isochronous channels for guaranteed bandwidth delivery, advanced power management and hot swap support.

PCI Express Technology

PCI Express cards are available in 2, 4 or 6 port serial card configurations and offer high-speed, serial I/O bus that maintains backward compatibility with PCI applications and drivers. The layered architecture supports existing PCI applications and drivers by maintaining compatibility with existing PCI model. Defined by high performance, scalable, serial bus, the PCI Express card is dedicated to the device while multiple PCI Express devices can be active without interfering with each other.

Quatech also offers 2 port parallel cards; 2 and 4 port serial/parallel I/O cards and PCI Express to ExpressCard converters.

Advanced features

As client system boards migrate from the PCI connector to the PCI Express connector, Quatech's PCI Express cards maximize advanced features such as:

- Advanced power management
- Support for real-time data traffic
- Hot plug and hot swap
- Data integrity and error handling

PCI Express vs. Universal PCI

Although PCI and UPCI Cards can be used in a variety of platforms, PCI Express reflects an industry trend to replace legacy shared parallel buses with high-speed serial buses. They both have the same dimensions and are equipped with rear brackets, the difference lies in the I/O connectors. PCI Express has 36 pins versus the 120 pins on a standard PCI connector.

KEY FEATURES

- New generation of I/O interconnect standard
- Supports serial data transfer rates to 115.2kbps
- Supports parallel data transfer rates up to 1.5MB/sec
- Compliant with PCI Express Base Specification 1.0a
- Variety of configurations: serial, parallel, serial and parallel
- 2, 4 or 6 port configurations
- Advanced architecture making use of point-to-point technologies
- Data bus transfer rate of up to 2.5Gbps under one-lane operation
- 1.5 times faster compared to existing 32 bit PCI bus
- Broad product offering with multiple serial/parallel I/O configurations

Model Selection Guide

Model No.	Description
DSLP-PCIE-100	2 port serial RS-232 to DB-9, low profile, PCI Express board
QSLP-PCIE-100	4 port serial RS-232 to DB-9, low profile, PCI Express board
DP-PCIE-100	2 port parallel to DB-25, PCI Express board
DS-PCIE-100	2 port serial RS-232 to DB-9, PCI Express board
DSSP-PCIE-100	2 port serial RS-232 to DB-9, 1 port parallel DB-25, PCI Express board, requires 2 PC bracket slots
QS-PCIE-100	4 port serial RS-232 to DB-9, PCI Express board, standard height orb
QSSP-PCIE-100	4 port serial RS-232 to DB-9, 1 port parallel DB-25, PCI Express board requires, 3 PC bracket slots
HS-PCIE-100	6 port serial RS-232 to DB-9, PCI Express board, requires 3 PC bracket slots
XCD-B/PCIE-ST	1 rear slot ExpressCard Drive, PCI Express interface

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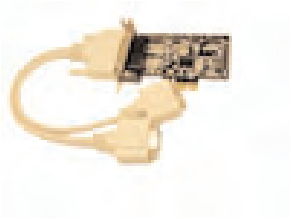
Specifications



DSLP-PCIE-100

Features	* Compliant with PCI Express Base Specification 1.0a * Data transfer rate up to 115200bps
Interface	RS-232
Machine Compatibility	Low Profile systems, standard height configuration with low profile orb installed
Bus	PCI-Express X1
Connectors	2 DB-9 serial fan out cable, requires only one PC bracket slot
OS Compatibility	Windows 2000/XP/Server 2003/Vista/Win7
Warranty	1 year

QSLP-PCIE-100

Features	* Compliant with PCI Express Base Specification 1.0a * Built-in 16550 compatible UART with 256-byte transmit-receive FIFO * Data transfer rate up to 115200bps
Interface	RS-232
Machine Compatibility	Low Profile systems, standard configuration with low profile orb installed. Full height orb included.
Bus	PCI-Express X1
Connectors	4 DB-9 serial fan out cable, requires single PC bracket slot
OS Compatibility	Windows 2000/XP/2003/Vista/Win7 (32/64-bit)
Warranty	1 year

DP-PCIE-100

Features	* Compliant with PCI Express Base Specification 1.0a * Supports Standard Parallel Port(SPP), Enhanced Parallel Port(EPP) & Enhanced Capability Port(ECP) * Data transfer rate up to 1.5MB/Sec
Interface	EPP Parallel
Machine Compatibility	Full Height Systems
Bus	PCI-Express X1
Connectors	2 x DB-25 pins parallel, requires 2 PC bracket slots
OS Compatibility	Windows 2000/XP/Server 2003/Vista/Win7
Warranty	1 year

DS-PCIE-100

Features	* Compliant with PCI Express Base Specification 1.0a * Built-in 16C550 compatible UART with 16 byte transmit-receive FIFO * Data transfer rate up to 115200bps
Interface	RS-232
Machine Compatibility	Full Height Systems
Bus	PCI-Express X1
Connectors	2 DB-9 serial on orb brcket, requires only one PC bracket slot
OS Compatibility	Windows 2000/XP/Server 2003/Vista/Win7
Warranty	1 year

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QS-PCIE-100

Features	* Compliant with PCI Express Base Specification 1.0a * Built-in 16550 compatible UART with 256-byte transmit-receive FIFO * Data transfer rate up to 115200bps
Interface	RS-232
Machine Compatibility	Full Height Systems, low profile orb included
Bus	PCI-Express X1
Connectors	4 DB-9 serial, requires single PC bracket slot
OS Compatibility	Windows 2000/XP/Server 2003/Vista/Win7
Warranty	1 year

HS-PCIE-100

Features	* Compliant with PCI Express Base Specification 1.0a * Built-in 16C550 compatible UART with 16 byte transmit-receive FIFO * Data transfer rate up to 115200bps
Interface	RS-232
Machine Compatibility	Full Height Systems
Bus	PCI-Express X1
Connectors	4 DB-9 serial, requires 2 PC bracket slots
OS Compatibility	Windows 2000/XP/Server 2003/Vista/Win7
Warranty	1 year

DSSP-PCIE-100

Features	* Compliant with PCI Express Base Specification 1.0a * Supports Standard Parallel Port(SPP), Enhanced Parallel Port(EPP) & Enhanced Capability Port(ECP) * Parallel data transfer rate up to 1.5MB/sec * Supports 2 x 16550 fast UART serial port * Serial data transfer rate up to 115200bps
Interface	RS-232/EPP Parallel
Machine Compatibility	Full Height Systems
Bus	PCI-Express X1
Connectors	1 x DB-25 parallel, 4 x DB-9 serial, requires 3 PC bracket slots
OS Compatibility	Windows 2000/XP/Server 2003/Vista/Win7
Warranty	1 year

QSSP-PCIE-100

Features	* Compliant with PCI Express Base Specification 1.0a * Supports Standard Parallel Port(SPP), Enhanced Parallel Port(EPP) & Enhanced Capability Port(ECP) * Parallel data transfer rate up to 1.5MB/sec * Supports 4 x 16550 fast UART serial port * Serial data transfer rate up to 115200bps
Interface	RS-232/EPP Parallel
Machine Compatibility	Full Height Systems
Bus	PCI-Express X1
Connectors	1 x DB-25 parallel, 4 x DB-9 serial, requires 3 PC bracket slots
OS Compatibility	Windows 2000/XP/Server 2003/Vista/Win7
Warranty	1 year

XCD-B/PCIE-ST

Features	* Compliant with PCI Express Base Specification 1.0a * Supports ExpressCard (34/54 Form Factor Module)
OS Compatibility	Windows 2000/XP/Server 2003/Vista/Win7
Warranty	1 year

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